Australian Bureau of Statistics

1259.0.30.003 - Australian Standard Geographical Classification (ASGC) Urban Centres and Localities (UC/L) Digital Boundaries, Australia, 2006

Latest ISSUE Released at 11:30 AM (CANBERRA TIME) 21/08/2007

Summary

Main Features

09/12/2008 Note: Correction to the digital boundary files of 'Section of State Range ASGC Ed 2006 Digital Boundaries in MapInfo Interchange Format' and 'Section of State Range ASGC Ed 2006 Digital Boundaries in ESRI Shapefile Format'. The Section of State Ranges '214' and '215' for Victoria were amended in both files.

PRODUCT BRIEF

ASGC Urban Centres and Localities Digital Boundaries (ABS Cat. No. 1259.0.30.003).

Introduction

The Australian Standard Geographical Classification (ASGC) is a hierarchical classification system of geographical areas and consists of a number of interrelated structures. It provides a common framework of statistical geography and enables the production of statistics which are comparable and can be spatially integrated.

The ASGC covers Geographic Australia including the external territories of Cocos (Keeling) Islands & Christmas Island, but excluding all other external territories.

This product, Australian Standard Geographical Classification (ASGC) Urban Centres and Localities (UC/L) Digital Boundaries, Australia 2006 contains the digital boundaries current for the ASGC Edition 2006 UC/L and Section of State (SOS) Structures (date of effect 8 August 2006).

The Urban Centre/Locality (UC/L) Structure identifies individual population centres, formed by the aggregation of whole Census Collection Districts (CDs) in accordance with specific population and land use criteria. The resulting areas are known as Urban Centres or Localities. The SOS Structure is designed to identify CDs which are intrinsically urban or rural, providing statistics for aggregations of towns in various population classes and balance of State areas.

The product includes boundaries of Urban Centres and Localities (UC/Ls), Sections of State (SOS) and Section of State Ranges (SOSRs) current at 8 August 2006. The digital boundaries are available only at one level of detail and align accurately with the digital base map data used by the ABS. These boundaries are intended for display in GIS and desktop mapping packages, and because of the high level of detail, they are not suitable for use in 'low-end' mapping packages such as those included in Excel and Lotus 123.

Operating Environment

It is important for users to be aware that boundaries released by the ABS after August 2001 are based on the geocentric Datum of Australia (GDA94). GDA94 provides an internationally compatible coordinate system for all geographic data and allows Australia to gain significant benefit from Global Positioning Systems technology. The transformation of boundary data to GDA94 involves a significant shift, of about 200 metres to the north east, compared to coordinates based on the older Australian Geodetic Datum (AGD).

Older GIS/desktop mapping software packages may not recognise this new datum and therefore boundaries based on the new datum will not necessarily align with boundaries based on earlier datums. However the GIS/desktop mapping software may have the capacity to adjust data to another datum when two datasets are viewed together.

Boundaries are supplied in MapInfo Interchange format (.MID/.MIF) and ESRI Shapefile format (.SHP, .SHX, .DBF, .PRJ). MapInfo Interchange format cannot be used for mapping directly, but is suitable for import into other GIS or desktop mapping packages. However, it is possible that limitations of individual software packages may make it impossible to import all boundary sets.

File Nomenclature

Each file name has the format <file type><01><a><STE Code> where:

<file type> represents the type of boundaries in each file

UCL = Urban Centre/Locality

SOS = Section of State

SOSR = Section of State (Population) Range

<06> represents 2006 the year of the Australian Standard Geographical Classification (ASGC) Edition.

<a> indicates the data is at a high level of detail i.e. "all points" data

<STE Code> represents the ASGC State/Territory Code.

null = Australia

1 = New South Wales

2 = Victoria

3 = Queensland

4 = South Australia

5 = Western Australia

6 = Tasmania

7 = Northern Territory

8 = Australian Capital Territory

9 = Other Territories

File Attributes

File Type	Attributes	Type	Comments
UCL	UCL_Code	Integer	6 digit UCL code
	STE	Integer	1 digit ASGC S/T code
	UCL_Name	Character (45)	
SOS	SOS_Code	Integer	2 digit SOS code
	SOS_Name	Character (40)	
	STE	Integer	1 digit ASGC S/T code
SOSR	SOS_Range_Code	Integer	3 digit SOSR code
	SOS_Range_Name	Character (35)	
	STE	Integer	1 digit ASGC S/T code

All column headers show spatial unit type, spatial unit attribute and year of edition.

Data Quality

The ASGC Edition 2006 UC/L, SOS and SOSR digital boundaries are based upon the 2006 CD boundaries of the ASGC Edition 2006.

While the topological consistency of the data can be regarded as high there may be very small errors such as gaps, overlaps and bow-ties.

Metadata

Refer to the files 1259.0.30.003 Metadata Proforma and GDA94_Factsheet.pdf listed with this product.

Reference

Information regarding the underlying concepts of the Australian Standard Geographical Classification and its Structures may be found in the ABS publication Statistical Geography Volume 1 - Australian Standard Geographical Classification 2006 (ABS Cat. No. 1216.0). A publication is produced for each edition of the ASGC. Further information on the UC/L Structure, including code/name listings and maps, may be found in the ABS publication Australian Standard Geographical Classification (ASGC) Urban Centres and Localities (UC/L), Australia 2006 (ABS Cat. No. 2909.0). This publication is produced for each Census edition of the ASGC.

For enquiries please contact the ABS Geography Section, see details below.

ABS Geography Section

Email: geography@abs.gov.au

INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070.

SUMMARY COMMENTARY

ABOUT THIS RELEASE

The Urban Centre and Locality (UC/L) structure of the ASGC groups Census Collection Districts (CDs) to form defined areas according to population and other criteria. The resulting areas are known as Urban Centres or Localities. This publication lists all Urban Centres and Localities defined within a State or Territory in Australia at the time of the 2006 Census.

About this Release

Digital boundaries for the Australian Standard Geographical Classification (ASGC) Urban Centres and Localities (UC/L) for the Census of Population & Housing years.

The digital boundaries are supplied in MapInfo Interchange Format (.MID or .MIF) and are based upon the Geocentric Datum of Australia (GDA) 1994.

Explanatory Notes

Explanatory Notes

EXPLANATORY NOTES

GEOGRAPHY METADATA PROFORMA

DATASET CUSTODIAN

Title

1   ASGC (Edition 2006) Urban Centres and Localities (UC/L) Digital Boundaries, Australia (ABS cat. no. 1259.0.30.003).

Custodian

2   ABS Geography Section: geography@abs.gov.au

DESCRIPTION

Abstract

3   These digital boundaries represent Urban Centre/Locality (UC/L), Section of State (SOS), Section of State Range (SOSR). Date of effect of the UC/L and SOS Structures is 8 August 2006, the date of the 2006 Census of Population and Housing.

Geographic Extent Name

4   Geographic Australia; including the external territories of Cocos (Keeling) Islands & Christmas Island but excluding all other external territories.

Data Status

5　Completed dataset. No further updates are planned.

DATA ACCESS

Stored data format

6　Digital as separate files for each level of the ASGC 2006 structures represented.

Available format type

7　MapInfo interchange format (.mid & .mif) and ESRI Shapefile (.shp, .shx, .dbf, .prj) format.

Access constraints

8　Copyright Commonwealth of Australia administered by the ABS.

DATA QUALITY

Positional Accuracy

9　The PSMA topographic database to which boundaries are aligned was captured at scales which vary from 1:4,000 in urban areas to 1:250,000 in remote areas.

Attribute Accuracy

10　Geographical area codes & labels are 100 % validated to the 2006 edition codes & labels of the structures represented. (Reference is ABS cat no. 1216.0 and 2909.0).

Logical Consistency

11　Spatial units are closed polygons. Polygons are attributed with ASGC 2006 codes & labels. Slivers/bow-ties may be present within or between spatial units. These data include attribute records without spatial objects for administrative purposes.

Completeness

12　The Urban Centre/Locality and the Section of State Structures of the ASGC Edition 2006 are represented in their entirety.

CO-ORDINATE SYSTEMS

Datum

13   Datum GDA94

Projection

14   Projection Lat/Long

Metadata Date

15   August 2007

Additional Metadata

16   Reference: Statistical Geography Vol 1: Australian Standard Geographical Classification (ASGC) 2006 (ABS Cat. No. 1216.0). Statistical Geography Vol 3: Australian Standard Geographical Classification (ASGC) 2006 Urban Centres/Localities (ABS Cat. No. 2909.0).

Data Cubes (I-Note) - Data Cubes

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